Jacob Abbott

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Education

2016–2022   Ph.D., Informatics, Indiana University, Bloomington, IN

2013–2015   M.Sc., Security Informatics, Indiana University, Bloomington, IN

2010–2012   B.A., Foreign Language and International Trade, Southern Illinois University, Carbondale, IL

2005-2010   B.A., German Studies, Southern Illinois University, Carbondale, IL

2010   International Business Development Winter Program, Grenoble Ecole de Management, Grenoble, France

2009   International Marketing Summer Program, Grenoble Ecole de Management, Grenoble, France

2006-2007   German & Cross Cultural Communications, Salzburg College, Salzburg, Austria

Teaching & Advising

2022   Adjunct Lecturer, Indiana University, Bloomington, IN

2021   Instructor of Record, Indiana University, Bloomington, IN

2013–2014   Associate Instructor, Indiana University, Bloomington, IN

Research & Work Experience

2023   Postdoctoral Fellow, Indiana University, Bloomington, IN

2022   IT Security Specialist, Bank of America, Charlotte, NC

2016–2022   Doctoral Research Assistant, Indiana University, Bloomington, IN

2019   Development Team Intern: Password Researcher, DarkOwl LLC, Denver, CO

2018   Visiting Scientist, CSIRO Data61, Melbourne, Australia

2015-2016   Project Lead, NeuroCrypt LLC, Bloomington, IN

Research Proposals & Grants (Contributor)

2023   Co-PI on award from the Cellular Telecommunications Industry Association (CTIA)

PI: L. Jean Camp, Co-PI: Jacob Abbott

Funded: $162,768

Honors & Awards

2022   Luddy Outstanding Service Award

Luddy School of Informatics, Computing, and Engineering

2022   Honorable Mention for Best Paper Award

Conference on Human Factors in Computing Systems (CHI) 2022

2022   CHI Student Volunteer Award - Best Catcher of Mistakes

Conference on Human Factors in Computing Systems (CHI) 2022

2022   Excellence in Service - Informatics Department

Luddy School of Informatics, Computing, and Engineering

2019   Honorable Mention for Best Paper Award

Conference on Human Factors in Computing Systems (CHI) 2019

Publications

1. Anne Clara Tally, Jacob Abbott, Ashley M. Bochner, Sanchari Das, and Christena Nippert-Eng. "Tips, Tricks, and Training: Supporting Anti-Phishing Awareness among Mid-Career Office Workers Based on Employees' Current Practices." In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems*, pp. 1-13. 2023.

2. Anne C. Tally, Jacob Abbott, Ashley Bochner, Sanchari Das, and Christena Nippert-Eng. "What Mid-Career Professionals Think, Know, and Feel About Phishing: Opportunities for University IT Departments to Better Empower Employees in Their Anti-Phishing Decisions." *Proceedings of the ACM on Human-Computer Interaction* 7, no. CSCW1 (2023): 1-27.

3. Jacob Abbott, Jayati Dev, Donginn Kim, Shakthidhar Gopavaram, Meera Iyer, Shivani Sadam, Shrirang Mare, Tatiana Ringenberg, Vafa Andalibi, and L. Jean Camp. "Kids, Cats, and Control: Designing Privacy and Security Dashboards for IoT Home Devices" In Proceedings of the Symposium on Usable Security and Privacy (USEC) 2023, March 2023.

4. Jacob Abbott, Jayati Dev, Donginn Kim, Shakthidhar Gopavaram, Meera Iyer, Shivani Sadam, Shrirang Mare, Tatiana Ringenberg, Vafa Andalibi, and L. Jean Camp. "Privacy Lessons Learnt from Deploying an IoT Ecosystem in the Home" In Proceedings of the 2022 European Symposium on Usable Security (EuroUSEC '22), September 2022.

5. Zitao Zhang, Jacob Abbott, and L. Jean Camp. "Building An Authentication Infrastructure— Designing a Two Factor Authentication Hardware Token with Form Factor that Encourages Engagement." Telecommunications Policy Research Conference (TPRC), Washington DC, 16-17 September 2022.

6. Jacob Abbott, Jofish Kaye, James Clawson, "Identifying an Aurally Distinct Phrase Set for Text Entry Techniques", Conference on Human Factors in Computing Systems (CHI), April 2022. Received an Honorable Mention for Best Paper Award.

7. Marthie Grobler, M.A.P. Chamikara, Jacob Abbott, Jongkil Jay Jeong, Surya Nepal, and Cecile Paris, "The importance of social identity on password formulations", Personal and Ubiquitous Computing, Springer, November 2020.

8. Jacob Abbott, Sameer Patil, "How Mandatory Second Factor Affects the Authentication Experience", Conference on Human Factors in Computing Systems (CHI), April 2020.

9. Sanchari Das, Jacob Abbott, Shakthidhar Gopavaram, Jim Blythe, and L. Jean Camp, "User Centered Risk Communication for Safer Browsing", In Proceedings of the First Asia USEC - Workshop on Usable Security, In Conjunction with the Twenty-Fourth International Conference on Financial Cryptography and Data Security 2020, February 2020.

10. Jacob Abbott, Haley MacLeod, Novia Nurain, Gustave Ekobe, Sameer Patil, "Local Standards for Anonymization Practices in Health, Wellness, Accessibility, and Aging Research at CHI", In Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems, ACM, Glasgow, Scotland, United Kingdom, 4-9 May 2019. Received an Honorable Mention for Best Paper Award.

11. Jacob Abbott, Gege Gao, Patrick Shih, "Creen: A Carbon Footprint Calculator Designed for Calculation in Context", International Conference on Information, Washington DC, 31 March – 3 April 2019.

12. Jacob Abbott Daniel Calarco, L. Jean Camp, "Factors Influencing Password Reuse: A Case Study", Telecommunications Policy Research Conference (TPRC), Washington DC, 21-11 September 2018.

13. Haley MacLeod, Jacob Abbott, Sameer Patil, "Small Data Privacy Protection: An Exploration of the Utility of Anonymized Data of People with Rare Diseases", Workshop on Interactive Systems in Healthcare (WISH), Washington DC, 4 November 2017.

14. L. Jean Camp, Jacob Abbott, Siyu Chen, "CPasswords: Leveraging Episodic Memory and Human-Centered Design for Better Authentication", Hawaii International Conference on System Sciences (HICSS), Kauai, Hawaii, 5-8 January 2016.

15. Jacob Abbott, Violeta Moreno Garcia, "Password Differences Based on Language and Testing of Memory Recall", In International Journals of N&N Global Technology on Information Security, 2, pp. 1-6. February 2015.

Posters & Presentations

1. Ashley Bochner, Jacob Abbott, L. Jean Camp. "Potential Reuse of University Credentials", Poster at the Seventeenth Symposium on Usable Privacy and Security SOUPS 2021, August 2021.

2. Jacob Abbott, Violeta Moreno Garcia. "Passwords Differences Based on Language and Testing of Memory Recall", Presentation at Emerging Researchers National Conference in STEM 2015, Washington D.C., 19-21 February 2015.

3. Jacob Abbott, Timothy Kelley. "Cognitive Passwords", Single slide presentation at Passwords Conference 2014, Trondheim, Norway, 8-10 December 2014.

Professional Service

• Member, ACM U.S. Technology Policy Committee Accessibility Subcommittee

• Reviewer, Communications of the ACM

• Program Chair, Usable Security and Privacy Symposium 2023 (USEC'23)

• Program Committee Member, Workshop on Inclusive Privacy and Security (WIPS) 2022-2023

• Program Committee Member, Workshop on Human Centric Software Engineering and Cyber Security 2022

• Discussant, Privacy Law Scholars Conference (PLSC) 2023

• Reviewer, ACM CHI PLAY 2023

• Reviewer, ACM ASSETS 2022 Workshops

• Reviewer, ACM Transactions on Privacy and Security (TOPS) 2022

• Reviewer, ACM Designing Interactive Systems (DIS) 2022-2023

• Reviewer, iConference 2020-2023

- Reviewer, Conference on Human Factors in Computing Systems (CHI) 2020-2023

- Reviewer, Personal and Ubiquitous Computing 2020-2023

- Reviewer, Computer-Supported Cooperative Work (CSCW) 2020-2023

- Student Volunteer, Conference on Human Factors in Computing Systems (CHI) 2021-2022

- Program Committee Member, ACM Designing Interactive Systems (DIS) 2021

- Reviewer, ACM Transactions on Computer-Human Interaction(TOCHI) January 2021

- CHI Health Subcommittee Assistant, Conference on Human Factors in Computing Systems (CHI) 2020

- Program Committee Member, Humans and Cyber Security Workshop (HACS) 2019

- Accessibility Team Student Volunteer, Conference on Human Factors in Computing Systems (CHI) 2019

University Service

- Serve IT Liaison with Council for Community Accessibility 2023

- Executive Chair, Graduate Informatics Student Association 2018-2021

- Department Representative, Graduate and Professional Student Government, 2017-2020

- Outreach and Charity Event Organizer, Informatics Game Research Group, 2018-2020

- Symposium Planning Committee Member, Informatics Game Research Group, 2019-2020

Community Service

- Production Assistant, City Church for All Nations, 2020-2023

- Digital Accessibility Program, Council for Community Accessibility, 2020-2023

- Accessibility Surveyor, Council for Community Accessibility, 2020

- 20s-30s Young Professionals Group Leader, City Church for All Nations, 2019-2020

- College & Young Professionals Media Team Lead, City Church for All Nations, 2016-2019